3003 Locust St. St Louis April 30 '72

Hell Heard a Locust, Texas

My dear Pamy

At last I hear from you again! And it was very necessary that you should have written, for I had lost all trace of you, and was going to publish an inquiry for you in the papers! I had, to be sure, two letters from you, but as I did not answer at once, I was never done, sure to strike in your nomadic life. If I had known you was sick in bed of course would have sent you a long medical letter! Better that it is not necessary any longer. —

It would not have been necessary to introduce Arnethobia to open the sluices of my rhetoric I would have written anyhow.

but if I get more news about Mr. ... I shall be perfectly happy & Respectfully Yours as perfectly as a poor struggling ... botanist can be, also — one difficulty ... settled, sees a dozen others rising ... before him like worrying, threatening ... ghosts! And I dont know either how I should set to work to ... Abies — as you are going to roam among them! —

A Menziesii has usually stomata only on upper side of leaf and is white there but your Colorado sp have stomata on both sides. Always? They are easily seen with a glass.

A. grandis = Colorado has often short acute leaves on bearing branches & longer emarginate ones on low sterile branches. Always? Get the branches of young or young trees with longest leaves and those of bearing branches. A. concolor, Santa Fe Pecos Sandia Mt. Bigelow Wasatch, Turkey (Coron ought to offer very large or highest Rocky Mtns leaves near ground about; and plates & stomata on both sides, near emarginate

I should go myself and watch Nigel's Hours & Breath! Yes but a young practitioner, like me, must watch and nurse his growing powers

there is no opt to slip away
from him! Next year — oh George
is here — but next year there
is no Pary, no Gray, No Hookers
about! Ah me!

You will find in Glens Falls Mrs
Lucy Millington, who will direct
you to Arenthobium. I wrote to
her a few weeks ago, but have
not heard.

Most species fl. in fall, but this
one from the state of 8 fl in
Oct & Nov. must bloom in spring.
There are many things to watch

Young plantlets of last spring
looked last Nov (and probably now)
like a little brownish green hemisphere
½ line in diam. of half covered
by a shred of bark. I saw them
only on branchlets of the year before (1870),
on the branches of 1869 specimens with
fl. buds were seen and such with
ripe fruit only on branches of 1868 or older
Does the plant really fl. in spring?
does it only germinate on yearly
branches? Does it die after

bearing fruit (3° year) and males after flowering? Or — as I suppose — do most plants die after once flowering and a few survive — are these few only females or also males?

And now another question. Thus far I have seen males & females either separate, or separate branches or trees but in colonies together. Is that always so — or accidental?

And at last: don't get, "more than," a mail fragment — but get numerous specimens and good ones, with the growth of several stages — years — on the same specimen. — If possible males & females mixed (which I have not yet seen)

The females must now be in flower (having shed fruit last fall) a two lobed calyx, with a little obtuse stigma between them. The males have a trilobed calyx with 1 (all) anthers adhering to lobes.

Now your answer before or after the Adirondacks, will be welcome and decide more (letter?) demands — requests, from

yours

J Engelmann

housecleaning!! oh!!

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GEORGE ENGELMANN PAPERS

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St Louis May 7 72

Dear Fanny

I wrote you
a week ago & should others both
today I get a letter (Bramley) from Mrs Millington
they come from near Warrensburg
but she lives at Glens Falls.
I write to day again announcing
your visit, & putting several
questions, which in short I will
repeat here.

The ~~stamens~~ are all male
or all female on one branch
Question is that always so — and
how can it be so? Males seem
to predominate.

all flowers ours — (for they are
actually spring flowers!
are on the 2 year old branches! Is
that always so?

Do they die ~~from~~ flowers? or
bear occasionally flowers twice?

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golden brandes with living plants in them would be necessary to study. —

I also got a letter today from Wright who sends a gramadoon frequent which seems to indicate a second species of Beechlop (Cha) He enquires about you — you are lost to them, it seems.

Le next —

Anxious to hear from you!

Yours ever

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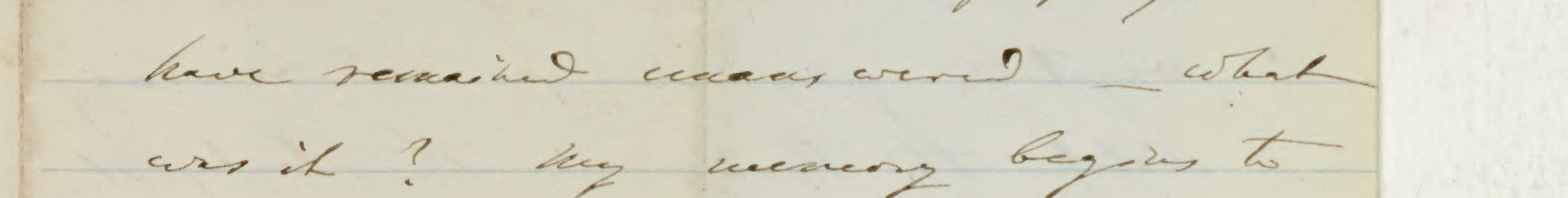
St Louis May 22 1872

My dear Doctor

They have come — the
Mysterious Nuttalls, the in-
visibles dwarfs; but why not
more, when you was among forests
of them! I would have taken
whole trees of them and made
the whole botanical world happy
with specimens!!

I ought to have kept a list of questions
I put to you and others as regards
them. You say, you have not answered
them all — but I now forget, what
have remained unanswered — what
was it? My memory begins to
play!! Getting old?!

One question is confirmed, then
Jan — no two sexes on same tree.
But careful search must show, whether



that is always so. —

I have come to the conclusion that seedlings are extremely scarce, and would hunt for very young trees with the first scattered or single seedling. I have become satisfied that the plant propagates (like sponges, by rootlets, stolons, minute fibres, under the bark, from one joint to the next younger one, and that the uniformity of sex and the great abundance of individuals only can be explained. The microscope will have to prove it! I am satisfied, if once a single individual has settled on a spruce they actually grow (like a disease) It seems to me an important fact in vegetable physiology and biology. Watch the thing in the Rocky Mts for the same possibility!

You have occupied my mind another way! I had not accurately studied the seeds of Yucca as

Agave, I mean the microscopic
characters of the scarpa, and I now
find very nice characters there.
When the A. Parryi seeds and Carpels
from Davenport got into my hands
I gravitated: has the — — — — —
(please supply any epithets you choose)
of the A. Yucca seeds on me!
So much like those on the carpel. But
I soon satisfied myself, that I did you
a grievous injury. Your seeds are real
good Agave seeds — are identical with
Emory's (Obtd 19 1846) but very different
from Pelham's. These are the 3 Agave
Agave seeds I have (— besides Agave
heteracantha = Lechuguilla — A. Utahensis)
but where the different flowers belong
I can not say! — Well, the
Railroad will bring people there,
who may collect and observe
& I hope you know "Criswell"
in Davenport, and will write
me more in full about Arnatto &

I am glad you found Mrs Hastings and was pleased with her. A day or two good to find enthusiasm. That tramp through the snow on Dec 2d has completely gained me!

Did you get both my letters?

Yours truly

G Engelmann

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[illegible] 20th May 1892

Dear Parry,

That is a bright idea of yours, that I should come to Colorado in August to meet you and Gray there. If the weather will permit me (I do not mean my wife) it could perhaps be done. We shall see. I am quite electrified!

Going together with you and Gray through the Rocky Mountains at the season of year would be a perfect feast of sweetness. And the interesting fact that the mole plants are already flowering early, I should advise that seeds is good, if any one is near enough. Be careful and patient enough to watch. — Dear Mr. Parry, I do wish you straight circumstances. Can you tell me any thing about her?

Well you watch the Ps in Colorado. You know there are 2 species, one (your Bonaerensis or P. pendula and a slenderer more branched, greener

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on R contorta. Meehan found G & F of the latter on one single branch — but usually they seem to separate like the NY plant. Mrs. Allen of St. Louis NY, are a sort of shrubby, i.e. perish several years. You ought to get the oldest & largest you can find and trace them from oldest (how old!) limbs to youngest (or how young one?) and find the little buds (budding plants) such you have seen in Abies nigra. — By the way, by boiling the bracklets a few minutes, I succeed in saving the leaves from falling. — Well if — if I should come to Colorado I will try — & look for myself — but that if!

Mr. Meier has gone to California but is expected back this week. I will attend to your wants, but am a inefficient poor beggar.

What about that Wheeler Collection? Who is Wheeler? I must write to Palmer, or to Vasey.

Yours truly

G. Engelmann

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GEORGE ENGELMANN PAPERS

St Louis July 4th 1862

My dear Fanny —

The day before yesterday
the 2nd inst. and yesterday your letter!
So you live, and don't forget or
cast me entirely! Though my
wife & Davenport remained unanswered.
I thought it best.

A Capt with whom I became
acquainted in Rome is a good
friend of mine and befriends my
"clients". — He intends to go
with him in a special train & Car
& with heavy heart I was
unfortunately obliged to decline.
My wife is afraid he would
not to much "finishes" in Empire
City (ladies, don't forget you that
rake George trick, but hopes you
may come here on your return
where we can take better care of
you than at Elm & 5th!
Well what do you say to my
last suit with Yankeedom? Have
you passes etc — I recommend him to you.

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They put it self-satisfied about all their — others among the rest. How I asked, that is all your A. bassana? You (and I too) worry about A. grandis and amabilis etc and you don't know your own homegrown balsamea — and as to fraseri, that is almost a myth. — I have now sent out surveys north eastward to gather — I study these species — but Porter, one of those I addressed will be away the grandis sooner than — away balsamea! I am passing here with a Chicago train in fifty a week ago — must be in your region now — hope you will meet him. I visited him here — be at my house while I was at the hotel. — But to return to balsamea, the form & size of cones, shape & proportion of bracts and scales just as variable as in the western species; also many of particularly and stout branches. the former as much as I have seen always sharply acute. with these things again in Colorado grandis

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GEORGE

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though I believe I have good material from you. But if you find a good tree full of, examine & collect fruiting branches with (remnants of) male amentsa and some fresh branches — of diameter 1 the first years growth — and the 2d older, with the bark I suppose exfoliated. — But is that always so?

Any Transition of N. England Magnolias? Hall's Oregon ap. seem to indicate something like it. — Hall was here last week, from Texas — disappointed.

Just now for Smithsonian. Your sp. were of great value. They are just flowering; flowering period therefore earlier — in June? and do the fruits develope from June to Sept? or do they take 15 months to ripen? I judge so because a sp. coll by Fendler in Santa Fe in March has ripe fruit. I try to find out. If it is so then must be on hand to get young and fully maturing fruit on the plant — and later — Any one sent any young and also (on other plant?) mature fruit.

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the fruit is at first (call the first year) in tenders even in (March) erect, peduncle enclosed? — then does it lengthen and curve so as to shew a pendulous fruit? — You probably will find both stages if the fruit is biennial (i.e. 1½ years maturity).

2. are the plants thereby persistent (under several times, or are the N.Y. plants only once — I suppose the former) and it requires investigation at different seasons. Your males which now are flowering could in the fall (or in spring) send out heads (in winter) new offsets.

3. The subterranean base of the plant seems to push new shoots — therefore the gen. idea of appearance of old plants — and to do that for many years — or how old Cubs does it grow? (i.e. persist) 10–65 years old?

4. And on how young ones is it found? You know in the N.Y. plants which persist after multiplication, the plant is fully developed only on Branches of the 4th year, or in 1872 or Cuttings of 1869.

Now in your single specimen or Spondyas which is complete (the other is incomplete) I find — 1. that the leaves persist 4 years and that 2 the fourth bloom just below

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the Coulter Pine

as I have sketched here on the axis grew 4½ years ago, 1868. But on the next shoot, in 1869, I find buds which will probably grow up this year a flower next. Watch that!

The thing I take under the bark upwards, and seem, to develop regularly every year in a higher or younger part of the Branch. Watch that! Then I suppose that in the fall you will find this bud on Branch 1869 now developed ready to bloom in 1873 (a staminate fruit, if female, in 1874 ?) and on Branch 1870 you ought to find the first rudiment, a little knob, as you have found them in Ny.

Then you see that I have nothing but Mein & Arnottiana to ask about, but a good deal about them, especially the latter. I want to answer well and conscientiously by virtue a good deal of patient investigation. Do you understand? You know that on P. Contorta you find the other species, Arnotti.

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Ununtersuchen, — which ought to be
studied in the same careful manner.

Mecham, last year, accidentally
gathered in Colorado, bunch of Cactus
with male & female together on
same axis !!! Look out for that
in both species!

Yucca is a queer thing. The stigma is
a tube which leads into the ovarian cell,
is only fertilized if pollen is rammed
into that tube; This is done by a
moth which also lays its eggs into
the tube, and the larvae of which get
no sustenance if the ovules are not
fertilized; so it has to perform that
function and fill the pollen on the
ff !!!

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Break a little into your moss
and collect largely of Arenthobium
both species — both sexes and
with dates (not like Hall — his finds
their grand Oregon species, throughout
the season mixed !!).

Question? when does the Cactus Arenth
bloom — and is it also ripening fruit
in 2d year at th — All questions same
as in the ponderosa ff.

with love! Yours truly G. Engelmann

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Miami Fla. Dec 25 1892

Mr. Dear Sir

You are now
getting into the harness of regi
to work faithfully. What a
deluge of Amenities! Many
thanks — hope they Cotton has
reached you and the st. of Pinus
ponderosa will also be attended
to. The few specimens sent are
instructive but not exhaustive.
You must pick dozens — & handle
and intelligently examine — there
to be able to select fact,
Well, you have my question
about St. ponderosae as I will
for the present call it, now for
Americana (of C. contorta)
Before proceeding I must tell you
that you seem to mistake the sexes,
and to settle this I enclose payne's
The specimen & the letter from Zinch

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(though you say: Spec.— enclosed have the two sexes near enough for practical purposes.

Branch 1 all female

You seem to take for ♀ only those that have fruit, all else for ♂ but I find 4 different stages:

1. female with ripe fruit — to mature probably in September. This you know and I need not send it.

2 female with young flowers or flowerbuds or very young fruit — difficult to say which. The

2 closed perigon & stigmas

3 dead males, always yellow and decayed looking

4 young males with very small buds, but in which I can already make out the 3 anthers.

Of 2. 3. & 4 I send fragments.

Now the question with me is: when does it flower? When will No 4 come to flower and when did No 3 flower? I must add that I got the plant generally with large flower buds, gathered in September. Mr Meehan found it in full fl. in Clouds. I think middle of August? But if so, should No 3 remain on the trees for 11 months?

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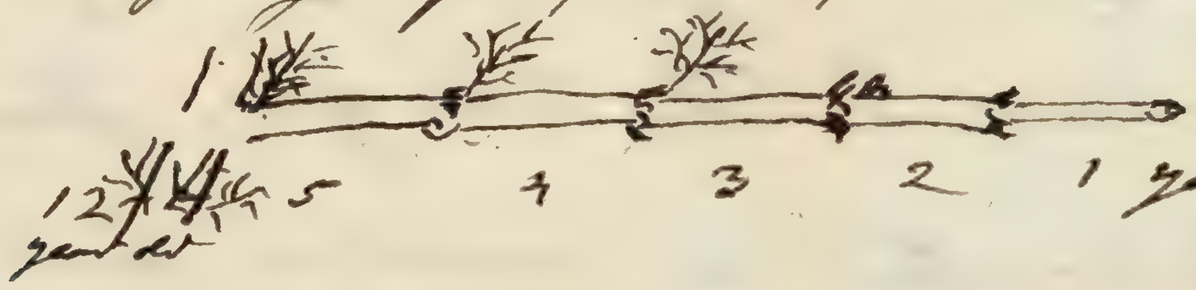
You say the plant decays after ft & fr.. but I find after, what I take to be young flowers on same branch or stem as immature fruit. One of the specimens of 2 bears a fruit. Now, are the "young flowers" on such branches only unfertilized old things, or really fl. buds? Or same stem as fruit?

The plant decays down to its perennial subcortical base, from which for 20 years and more new stems may sprout and every year only a single of your specimens had 5 & 9 on different branchlets; all the others decaying. In almost all your specimens I found only a single patch of the parasite, usually on the upper branchlets; in N. of the Adirondacks we find Cuscuta most plants naturally on the 3rd year old parts, and new sprouts on the 2 year old — very rarely plants on 4 or 5 year olds — and then always (after) It is so interesting to follow the mode of life of these obscure plants. — Well, these biological characters do not seem to be absolute, for in a single vigorous specimen

of yours I notice on all branches (4 or 5) this creeping propensity. Here is one of the




branches of this style specimen; the 12 year old, 12 year old bears abundant parasites; the Catawba branches, 5 years old, have them always only just above the base of each years growth; in the joints that are 5. 4. & 3 years old, I find flowering specimens, but in that which is 2 year old or rather in 2d year I find only small buds for like long —

Now, if my present observations are correct, I find in A. pendorosa the first sprouts coming out on joints in their 4th year, A. pusillum. on joints in their 3d year, and in A. Americana on such in their 2d year — I that always so?

You say, usually a young shoot but occasionally on trunks 5 years old — Some of your specimens show 12-18 annual rings! But how old may a trunk become and still bear the parasite.

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2/ I write in my office in town and must use what paper I can lay hands on

Well, I have then already asked on how old branches the parasite (either species) may persist? 20, 30 years?

On how young ones are the first trees found? According to the above specimen on branches in their 2d year.

When do they flower? 2 — They evidently ripen the fruit in the 2d year — while the spring flowering A. pusillum matures in same season

Do they all or always die after fr. or do they or at least the females bear fruit several times? I doubt about A. Americana, but it may be in A ponderosa. —

I have had specimens of A pusillum from Mrs Millington and have seen traced within the tissue of the bark the cellular strings of the parasite running up the joint. —

How do you the fructiferous stems of A ponderosa grow? how many generations of fruit may they bear? — The subcortical base is all seems persistent many years.

If they die after fr. as undoubtedly A pusillum does then there is a time (for the males after fl. for & after maturity) when all fall off. How is that?

I do not know whether you have patience to examine into these matters! But I hope to stir you up.

As to my or our coming — that is out of the question this year — home hard — I look by my patients, especially the

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Dear creatures.

And now with these two letters you will have enough to look after!

Yours ever

G. Engelmann

Here you get a letter full of emendations and additions
Hope you will be able to make out.

Princeton Dec 2 1872

Dear Parry

Today I got your letter and package. Thanks, and many thanks for the numerous and nicely turned compliments "more Deo"

My wife says Torry & Gray named that Silene after me on account of its uncompromising rough looks — just as they named that other plant Asa matta cata & the great digest of the Factor Rule I meek, mudest man, had no word of complaint to say. Well, Gray did not get either of us with his Grayia spinosa an evil greasewood thrust of Utah, "Rabeat tibi"; I hope that he is not as Gray eat as his Grayia How much better the noble and distinguished Torreya! from Nuttall's relations take, from me, your Asbies — but we will fight him fully & boldly (as in Strength & genuine California specimens of Brewers and Watsons Hall's Oxyria plant — The former I had considered Oxyria aequatifolia Hooker from Eaton, Bay Cones, Jaeger and

same species

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Dear Joseph

Mike reports of flowers & fruit, &c.

than Fraxinus, and intermediate between C & VII.

Take it a good pike your end, overhung by a Brauthorn! I like, you can watch him every day, and! Much as I did my Yucca & Agave.

Well, in 1861 you sent flowering "Male" but "more seed" without date!

Any result of date? Done?

Now, I am too late for the flowers this year, I suppose, then, in June.

The difference between male & female which you state & such your specimens seem to prove — the sedentary habit of ♀ and the wandering of ♂, is curious. Do you find it regularly so? Have sedentary ♂ an active pistil — and the reverse in ♀?

In general, now and, I think, the growth of 7 years, the present being the 7th

I in the part 7 years old have evidently flowered & fruited & have just fallen off — on the 6 year old part of

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after they are now developing ready
for next June; or the 5 year old
plants as trees — not of course
earlier up.

flower in 1872 — your plants to flower in 1873

Sp. sent by wells 1868 1869 1870 1871 1872
ago

Sp sent now 1866 1867 1868 1869 70. 71 72

Is the difference of both Sp. sent by you
the certain rule therefore? And
a number of males and examine
them yourself! Is. would him
to cut up and follow the stolon(?)
under the bark.

The question, The male
tree, falls off after flowering ~~early May or very~~ in June
and dont sprout again from
subcortical (not as you perverse it
subrootical) base. Do I write to illegibly?
The ~~Bat~~ female does sprout from base, but is
usually female stem perishes and bears more
flowers the following year! Many
often Accents... do! — What?

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Send a few Chrysanth. to Mrs Merriam

[illegible] have stated before, is that apparent flowers (which may be abortive, imperfect & even sterile) are found on same stem.

I take time to observe & note and find to wipen second year in 16 months or that is Sept & Oct [illegible] would die & ripen fruit & young fruit ripen like Vines. What I know

that Chandler found fruit much half grown in March and mature & seeds, you will find these about the fall.

not "more shd"

yet plenty of good specimens, also late ones with ripe fruit

My last letter or Thursday you will now also have

Can't come — Sorry! Perhaps not yet

I am [illegible] to [illegible]

I hope or hope to have

[illegible] here a few days

Let Gray tell you that Dr Torrey is not likely pursuits botanist. Dr Hooker does [illegible] too high to be sorely troubled, with [illegible] papers, tell us more. That is probably the reason he don't come.

Yours ever A. Gray

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Rhus: Apr 4 1912

Mrs Dr Parry

Colorado

Dear Mrs Parry: Some

time ago I sent you a little

souvenir that I was with

you, and some time since

I received your kind

letter and gift and your

dear Mr Parry's letter with

the [illegible] check

Boy's Top? etc.

Your letter with Arnett came

to hand as also the papers on

the Convention Speech.

Well, have you made out

the real flowering time of your 2 M.?

Shall we say June? or May?

for A. pondersae. And that for

A contortae! August? Mechan

collected it last year Aug 15 & buds as yet

[illegible] ?

[illegible] I got from the

[illegible] Monterey, gathered Aug 1st — write

Lieber and tell me if God to

see both this and young Sideby did

so. —

You ought to check this

letter, & we prove his wrong — or

other? And we expect to do that!

I just had from "Abis myra"

Comes from Minnesota in big Hand it

they are true alba — and if they

[illegible] the Lord Knows nothing

[illegible] to you, I rather Think that

Connects — ingeniable and Mengiesii.

"[illegible]" is a Scandinavian name.

Affectionately as ever to the

[illegible] Mattfeld Schramm, Gust

[illegible] Alice and rose together.

Fry was in Tubingen, but

I have not heard nor seen

of him.

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GEORGE F.
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I am sorry that the exceptional portions of the month August, of which I have especially disappointed, and which can only be settled by seeing many plants, — cannot, often, be done in two hours:

accomplished so much already. He gathered 10 years ago. The English Babies for Conifers ok at its height, 40 or 50 feet of Pines in Mexico, named and sold! Then out of the a dozen species, which grow in Mexico. And I believe one must reduce the accepted species by! Then after you to know you by sight — complete

Yours truly,

C. Lawson

Write soon and afterwards

but with more — you need not trouble yourself with dying — complete and duly noticed.

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St Louis Sept 14 1872

My dear Pamy

A few days ago
a bundle came on which
I recognized your handwriting
and — in which male & female
Nos. Americanum on Plum
Rolorta particip very Open.
But what was my surprise
then I found them pretty much
in the condition of those sent
4 July! flower buds
nearly ready to open, anthers
and Pollen developed — but
still closed — while Mechan
last year got Them with ripe
flowers in August?
So you send me old specimens
plucked weeks ago! This
wholly and my condition
almost makes me believe so
Or specimens which you
recently picked from a Tree

fellers weeks ago?

No line of yours — nothing

to explain.

I wrote to you Sept 4th

which I suppose — not — into your

hands soon after you sent

the package.

I hope you will ascertain

exactly when the flowering

August and September?

Different in different activity?

I had a letter from

Gibson Today from Cambridge.

He says I am hopeful

and pleasantly "Come home

Grey, invariably, has brought

back season notwithstanding to

Conifers! — You spoke

of that date. — What else

can it be as an identity of

P. contorta with Banksiana

P. monticola — Lobby

& Engelm — alba

and of grandis with Eleanor,
weeks, I hope he will write
herself ere.

Nothing new from here
I hope, when you return
you will have a horrible
time spend a week or two
here with us — We can
accommodate you better now
than we shall.

Yours ever

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Dr. Engelmann

St Louis Sept 20 72

Dear Sir

Yours of last date received

Contents noted "

Your satisfactory! date date?

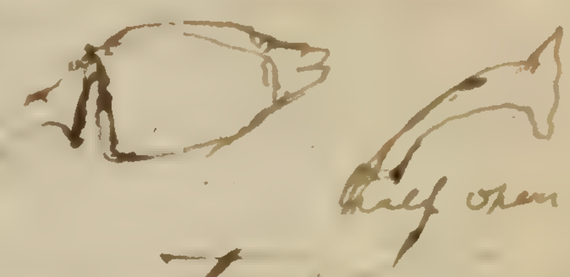
Does it mean my date Sept 4th 14th Have I put a number of questions — or Sept 14th in answer to the 15th of A American? and just ask? written Cotton?

I can not do otherwise than prepare questions — whether you will answer remains with you!

Thanks for the "Asparagus" of Asparagus, I suppose! How do you get that old ~~Rivulet~~ manie of mine? Pray?

The species are valuable but again puzzling!

Yes, the fruit are mature and dropping off — but (you probably or notice that) discharging seed at the base of fruit.



Many fruit were empty! "half open near base

perhaps with loss of fruit remaining a short time. They seem to discharge seed before dropping. Of the European species it is said that the seed is discharged with some force (centrifugal) and thrown some little distance

such regular opening of fruit & discharge of seed I had not seen before,

Yours truly!

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Oct 11 1911

Now out flowers of N. American
When does it bloom? Does it
also decay after maturing fruit?
or discharge pollen? ? ? ?

Your former pondrosa Specimen
were dark red brown. Those
received today are olive green brown
What is the usual color?

Yours ever gratefully

Geo Engelmann

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Dr Engelmann.

Notes at Hill

by Asa Gray.

Specimen

Complete and you shall have it

[illegible] 2 pm.

[illegible] probably in August [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

by oxen and no praying will bring

it back. But really have you

never seen flowers [illegible] came?

Why is flower a botanist? [illegible]

[illegible] and a [illegible] [illegible]

pupil or!

I gave Otto 1 pkg of chickweed

till use of the Secretary of Ag. dear

your absence you promise "Daily

or weekly "Report" and a cartload

of specimens" What has become

of Them? Send and pay?

[illegible] [illegible]

and "instruction "specimens? Ah!

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[illegible] I suggested it seeing with pencil [illegible] if it was a number of [illegible] very agreeable surprise to [illegible] correct and [illegible] accept the [illegible] element from [illegible] a substantial & perhaps thousand dollar [illegible] more attractive to [illegible] of the [illegible] for the [illegible] & the [illegible] two places.

Your of Sept 28th & Oct 1st [illegible] together with contents, the letter & yet Maggie behind!

Tom & daughter were here Tuesday a week Saturday & Sunday, we [illegible] me the fine Sunday, we [illegible] carriage with us when Travelling". — You was of course [illegible] Sharon & Lizzie & to [illegible] Comstock. — Dr Gross & Mrs [illegible] a Long letter, yesterday & [illegible]

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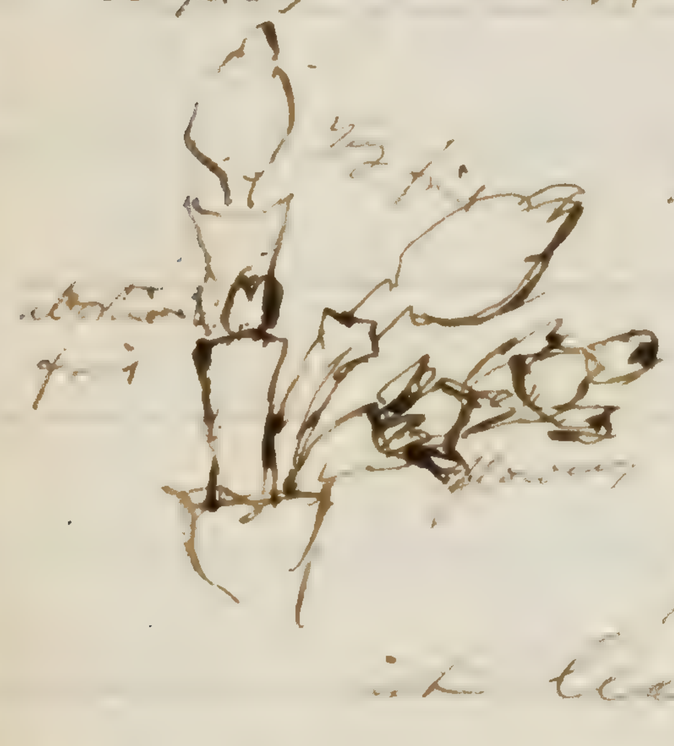
A repeated careful examination
of Arceuth. ponderosae exhibits
1 female specimens bearing young fruit
(with the prior the flowers of last year
having to ripen their fall)
In the same spikes (same axis)
with the fruit & prior here and there
small, abortive fruit, always of a
dull olive green colour, and almost
always other lateral spikes (secondary
axes) with flowers, or just past
flowering, always deep brown
[illegible] is therefore
to be, that the female
plant will bear ♂ & ♀
in best [illegible] though it
[illegible] may [illegible] only one




2, female specimen of vigorous
growth, and showing no flower
by buds — which evidently are going
to flower next year, and will, then
their buds already fall.
I suspect A. Americana follows
the law — (also as to sedentary
♂ ? ? )

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It is not impossible that the fruit bearing branchlets fall off after fecundity of the stem with their flowers branchlets —

Try and get us this & of the stem of ♀ as you can, which may have existed and born fruit for many years. On how old branches does it still grow on Plants ?

Further careful perlustration of the scaly & &c. to clear little doubt but that the scales do not all fall off, and to see if plant or sometimes produce new buds like the ♀

Your specimen of N. Amer of 1862 are very much larger, 4 inches high, very divaricate — ♂ flowers all in bud & ♀ — in plant must open later August or September ! Which ?! Call and see ! and pray !

Whether Carl year collected a shoot of the same where ♂ and ♀ grow on the same patch, must be a rare and curious accident !

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I must repeat, that I ofte
said before, that some species of
Arctiadæ from the flower beds
in the fall and develop there
the following spring (A purselleum)
or Dunnuen (A pondersosa)
Yes Yours moths and Bro
Wilcox have almost killed out
Empire — I was just down there
with a party of
boys a day or. — But no, experience
Bulletin records
[illegible]
as Cryptobia. They simply
will not work even thought of
[illegible] out of sight.
I hope those other diseases
treatment above will follow suit
[illegible]
[illegible]
I have never got the specimens
you speak of.

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[illegible]

[illegible] (Wash.) A cryptogram [illegible]

by the fruit creeps out of it crypt

[illegible] and leaves it

all over my Capsules !!

[illegible] believe that a

[illegible] sp. or see not [illegible] approach

the glossy smooth, more [illegible] edges

but it is true that the scales of N 2

2, in the valley on young trees they are

long produced, & thereat

[illegible] (in colour alg.)

[illegible], but [illegible]

et. dull and I believe thicker

(C. [illegible] & [illegible]

[illegible]

[illegible]

yet come to [illegible]

with us

Yours truly

S Engelmann

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Dr. Engelmann

St. Louis Mo

Dear Sir

Now, I must hurry to write — or else my letter may not find you in D. — Off again! Yesterday Mr. A. Carr asked me your address, wanting to send you a book again. And I suppose you will go, though no botany may be in it. Hope it will take you to St Louis, at least for a few days.

Have also had Roetter here for a short time; he will make a drawing of my new S. Carolina Iris — & Mr. Engelmann's name from him under many fine ones.

I have not been able to work in botany for a number of weeks too busy & not much taste.

Thanks for the correction of

"squirt" and "instructive" The former I do not quite accept, as it seems to be used only of liquids. Some to squirt, also I consulted advised me to apply the word to any one who dared to question the pure English of that Missouri rabble!

That is perspicuous? hangs on, does it? Wish it would hang on that man in Washington.

But you beg to learn about that Yellow. That is a little trouble and deserves to be named after you but as I have already a G Pompelly how would it do to christen it G. Wilsonelle??

Fearing, however, your objection to this proposition I may name it G. productus. You have noticed that the fl is departed and that the calyx is divided nearly to the base, the lobes being produced or appendiculate at base. It is quite distinct from G. acuta, but

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approaches J. campestris and still more
my Cf. heterospeck, both of which however
have a different way and urgent
calyx lobes. I take it to be a very distinct
thing, have you more of it?
or much of it? — I expect — more
soon — not! No fruit? No! No!!
S. Gray sold you — as you say
"more sic" — Seed is Corey in bulky
but it is better preserved — so the
horticulturists say.
(Both your Davenport letters Oct 10 & 22)
are before me and the question is answered.
If you do get stupid Pogonia
I beg for a live specimen I have
just a little greenery (if you allow the
word — I begin to get afraid of
green colour)
No, I have wanty see food for
a "Corey, got enough to last him
some time. We have no one else
to make collection here.
Mrs Mellichamp has found her strength

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"ejecting" it reed with force & like
her hands — thanks ever & yours
for the A. Amen and be by you
The Heis grads you & us also th
Saunders has arrived at last
from Davenport or Empire?
How Love up Corey & have we
got — (we a new reed?)
Your St. Eugene — alba took, not
at all like alba, but Gray ent
he a one which might pass —
but I think we will have no
Lessons / difficulty. Your French
Thursday () () dictate like
Call E. & Mary. Some rounded, others
truncate. Gray's core is scarcely
rose or dentriculate. —
If that J. Crane has been "troubling
you for the last 8 years" Why did you
not unbosom yourself sooner?
"What I know about" Freely?
"Interlopers"? About the former I know
that he will be Late* most weeks
according to the good rule of bad
against worse or "worser" of your

*Excuse my haste / writing

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Akron Dec 14 1872

Dear Parry

Do you arrive safely at home?

I write principally to inform you that if you have sent out specimens of that Gentian with my name, please retract and correct. I have not done it, waiting for more light — That has come over my dreams today. Knowing that most of our Gentians (even acuta) are dotted with artificial spots I overhauled the whole again and find that our supposed new plant is

*Gentiana tenella Rottb*

known from Scandinavia, Siberia, Alaska and even NW America. No author speaks of the protruded base of calyx, except Lederbour in Flor. Rossica who says: calycis laciniis basi serratis.

I have a lot of Junceas and Crinitas from Vasey & Palmer, packed more neat and badly crumbled. Now only thing of importance is my Arcuth dispositions (Fendleri or Pinedalis) or P. monophylla!! But that nice! But, but, but, gathered in mid

writer and not a bit incorrect Britton than my old specimens but a good confirmation of the species. I do nothing — botany — suffer under the Universal Epizoot walk walk — an excellent preparation for Colorado! But it goes hard — An tired and good for nothing in afternoon.

I forgot to say that Greene sends a specimen of that Gentian from Grizzly Peak with my name; so I see you have found that name abroad. — I have corrected it for Greene — if you have written to others — I pray — correct also and don't let my haste & shame go before people

Yours Truly

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G. Engelmann

I suppose you took the thick, terete Conifer — Brodiaea jamesiana "Engelmann" for that stout Mexican Allium. Palmer sends 3 Broken up specimens of the former. —

Any fruiting Yucca in Darmpt Garden?

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St Louis Feb 1 1843

My dear Harry

you have reason
to complain of me — as you
and other correspondents oft have —
the example of Torrey & Gray — the
great Rocky Mountain Chiefs — is too
seductive for a lazy man!
— But I can not withstand that last
shot — the Agave capsule! unfortun-
ately immature, and most probably
the Mexicana Spiritiana.

That Linum was also recd from
you years ago. I make it Berlandieri
var pallida (B. is orange yellow) and
it certainly comes close to rigidum.

You were right with me of your
guesses — it was the epizootic
which threw me! And oh, that
a falling off from the coasts of
a few weeks ago — the great walking

preparations for Colorado ended in
an inflammation of the foot-joint
(Gout ??) which disabled me for 3
weeks. I am now tolerably well restored.
— But! This is instructive as
suggestive too!

Just got Baker's 13 years journey
in Peruvian botanizing of 1872 July. — Quite too
late to me shallow and unsatisfactory
Only we must expect that more politely.

I have written to Johnson about
Y. brevifolia — Letter you write too.
I wish you would consult Watts & Lay
P. Contorta & Banks. Locally, to establish
the difference in same region! I
believe more and more in the difference
of P. flexilis & albicaulis. Only the latter
in Calif & Oregon.

George letter — long passage
arrived safely. My girls Lizzy
very sick — will be here 2 weeks.
Palmer says the Cacti are
now better cared for.

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Feb 7, '73

So you go to Hayden's Park!
Was it you or somebody else who
wrote to me about Hayden going
across to Jerimes, "still he ought
not to consider all he surveys
his own". Pretty good.

I expect some nice things from
you, though "more red" Little bits.
But to say the truth, that country
is botanically well explored. You
may get good seeds e.g. Larrea —
and trace the Conifers.

Will not me some of my families
for Texas. Only 2 Pines & under one
number — hints in flow, Tuck was
in fruit! — Nothing new; it was an
unfortunate trip.

This two Manilla (Oregon & Texas)
fruits have germinated in Berlin.

If you write to 49° Parallel
see that I get good Rhamnus
sp. & Pines — Your corn or seeds
amounts — damn to you!

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Mr Anderson sends me an Article from Monterey, the old thing, but, o wonder a Date to it.! So you see instruction sometimes do good!

No, have not heard from Kaphan with again, and I will answer.

Yours truly
G Engelmann.

Can't say anything about Rocky Mts, guess there will be too many artificial Barbarisms there — as at Lake George!) for my taste — and then my post!

Hall says he can make more & raising tators than

Drying plants

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St Louis March 15 1873

My dear Parry

And so our dear good friend Tony is gone! I received Tom's letter today from Boston. Your letter reassured me, and still more a note from Miss Maggie written on the 6th that he was up every day an hour or two. It seems that a new attack of bronchitis (or was it paralysis strength, bronchial paralysis?) took him off a few days afterwards. Jay, of course, went to his funeral which was to take place on the 13th. Did he write to you himself? I have not had a line from him since he was here after his Colorado trip. George did not get to see him.

Yes, George is here now, & works

Please put in Parry's letter

I shall keep Mary Morgan's letter about Tony's death & return it to her when I write

this day, much the old one, but a man of 25½ and so glad to be back in that loved wicked America. He has made various studies and will make his way. He sends his kindest regards to you and his Darmstadt friends.

Now about Bouchitis; I'll be very brief as I can hardly see what I write, but I will cut it as short as I can. I was under the treatment of Dr Bouchitis for nearly one week, when I was laid up a second time with my patients. Such both parties seemed to take cold enough — you see I am getting superfluous and can go to Colorado, or the long journey as well! But as I am not 77, just 12 years younger than Tommy, I will not give up yet; though I never expect to get as old as he! But away with [illegible]

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Nov. 15 '73

Have you got any thing for our Academy Transactions? Or have just begun to print; and I am not sure about Yucca short ~~Must~~ be finished but is constantly in my mind! How pleased men like you must feel who have no such responsibility from whom the world does not demand Yucca or Agave or Cereus either!

Yes, I will help you in all I can. Why, you will be the greatest man, though you may not beat the Schlagintweits. But Bessels at least will have to knock under (as he, poor rascal, seems to do every where now — no, rascal, it too severe — poor weak humanity!) Buda said of him that he had made so many more hypsometrical

Though that work will probably be done officially & not as a labor of love

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observations than Humboldt — and you will have made as many more than Fremont — as the Colorado is evident — but you are too modest — and I am too modest to — however keep encouraging on you — shall follow Banbury's example, and leave it to Posterity to form his own conclusions.

I found a Capt Wendine & half german, half Irish, 2/3 Americans (a mathematical puzzle for you!) who comes from Arizona, is very good for any kind of Nat. Sc. work, has collected Birds, eggs, insects (bugs) by the thousand — I want to help make a Botany — I said of the Genera, Capt. etc. — how he will be as good as his word. — There comes a Mr Gilbert, geologist who goes there also — I want to learn what he can do in Botany & look up the ferns, I say, get Mr. A correct date of your coll. but as further news do good bye

Yours truly A. Gray

Dear Prof. Asa Gray, I have many letters and papers from you, but I think I have never written to you. I am very glad to hear that you are well and that you are enjoying yourself. I am sorry to hear that you have been ill. I hope you will soon be well again. I am very busy with my work. I have been working on the flora of the Rocky Mountains. I have collected many specimens and have made many drawings. I am also working on the flora of the Pacific Coast. I have been to California and have collected many specimens there. I am also working on the flora of the Sierra Nevada. I have been to the Sierra Nevada and have collected many specimens there. I am also working on the flora of the Cascade Range. I have been to the Cascade Range and have collected many specimens there. I am also working on the flora of the Olympic Mountains. I have been to the Olympic Mountains and have collected many specimens there. I am also working on the flora of the Coast Range. I have been to the Coast Range and have collected many specimens there. I am also working on the flora of the Willamette Valley. I have been to the Willamette Valley and have collected many specimens there. I am also working on the flora of the Columbia River. I have been to the Columbia River and have collected many specimens there. I am also working on the flora of the Snake River. I have been to the Snake River and have collected many specimens there. I am also working on the flora of the Great Basin. I have been to the Great Basin and have collected many specimens there. I am also working on the flora of the Rocky Mountains. I have been to the Rocky Mountains and have collected many specimens there. I am also working on the flora of the Black Hills. I have been to the Black Hills and have collected many specimens there. I am also working on the flora of the Badlands. I have been to the Badlands and have collected many specimens there. I am also working on the flora of the Missouri River. I have been to the Missouri River and have collected many specimens there. I am also working on the flora of the Mississippi River. I have been to the Mississippi River and have collected many specimens there. I am also working on the flora of the Ohio River. I have been to the Ohio River and have collected many specimens there. I am also working on the flora of the Tennessee River. I have been to the Tennessee River and have collected many specimens there. I am also working on the flora of the Cumberland River. I have been to the Cumberland River and have collected many specimens there. I am also working on the flora of the Kentucky River. I have been to the Kentucky River and have collected many specimens there. I am also working on the flora of the Green River. I have been to the Green River and have collected many specimens there. I am also working on the flora of the Wabash River. I have been to the Wabash River and have collected many specimens there. I am also working on the flora of the Illinois River. I have been to the Illinois River and have collected many specimens there. I am also working on the flora of the Rock River. I have been to the Rock River and have collected many specimens there. I am also working on the flora of the Fox River. I have been to the Fox River and have collected many specimens there. I am also working on the flora of the Wisconsin River. I have been to the Wisconsin River and have collected many specimens there. I am also working on the flora of the Minnesota River. I have been to the Minnesota River and have collected many specimens there. I am also working on the flora of the Red River. I have been to the Red River and have collected many specimens there. I am also working on the flora of the Saskatchewan River. I have been to the Saskatchewan River and have collected many specimens there. I am also working on the flora of the Athabasca River. I have been to the Athabasca River and have collected many specimens there. I am also working on the flora of the Mackenzie River. I have been to the Mackenzie River and have collected many specimens there. I am also working on the flora of the Yukon River. I have been to the Yukon River and have collected many specimens there. I am also working on the flora of the Alaska Peninsula. I have been to the Alaska Peninsula and have collected many specimens there. I am also working on the flora of the Aleutian Islands. I have been to the Aleutian Islands and have collected many specimens there. I am also working on the flora of the Kamchatka Peninsula. I have been to the Kamchatka Peninsula and have collected many specimens there. I am also working on the flora of the Japan Islands. I have been to the Japan Islands and have collected many specimens there. I am also working on the flora of the China Coast. I have been to the China Coast and have collected many specimens there. I am also working on the flora of the Philippine Islands. I have been to the Philippine Islands and have collected many specimens there. I am also working on the flora of the Malay Archipelago. I have been to the Malay Archipelago and have collected many specimens there. I am also working on the flora of the Australian Continent. I have been to the Australian Continent and have collected many specimens there. I am also working on the flora of the New Zealand Islands. I have been to the New Zealand Islands and have collected many specimens there. I am also working on the flora of the Pacific Islands. I have been to the Pacific Islands and have collected many specimens there. I am also working on the flora of the Hawaiian Islands. I have been to the Hawaiian Islands and have collected many specimens there. I am also working on the flora of the Galapagos Islands. I have been to the Galapagos Islands and have collected many specimens there. I am also working on the flora of the Juan Fernandez Islands. I have been to the Juan Fernandez Islands and have collected many specimens there. I am also working on the flora of the Falkland Islands. I have been to the Falkland Islands and have collected many specimens there. I am also working on the flora of the Tierra del Fuego. I have been to the Tierra del Fuego and have collected many specimens there. I am also working on the flora of the Patagonia. I have been to the Patagonia and have collected many specimens there. I am also working on the flora of the Chile. I have been to the Chile and have collected many specimens there. I am also working on the flora of the Peru. I have been to the Peru and have collected many specimens there. I am also working on the flora of the Ecuador. I have been to the Ecuador and have collected many specimens there. I am also working on the flora of the Colombia. I have been to the Colombia and have collected many specimens there. I am also working on the flora of the Venezuela. I have been to the Venezuela and have collected many specimens there. I am also working on the flora of the Guiana. I have been to the Guiana and have collected many specimens there. I am also working on the flora of the Brazil. I have been to the Brazil and have collected many specimens there. I am also working on the flora of the Paraguay. I have been to the Paraguay and have collected many specimens there. I am also working on the flora of the Uruguay. I have been to the Uruguay and have collected many specimens there. I am also working on the flora of the Argentina. I have been to the Argentina and have collected many specimens there. I am also working on the flora of the Bolivia. I have been to the Bolivia and have collected many specimens there. I am also working on the flora of the Mexico. I have been to the Mexico and have collected many specimens there. I am also working on the flora of the Central America. I have been to the Central America and have collected many specimens there. I am also working on the flora of the West Indies. I have been to the West Indies and have collected many specimens there. I am also working on the flora of the Florida. I have been to the Florida and have collected many specimens there. I am also working on the flora of the Georgia. I have been to the Georgia and have collected many specimens there. I am also working on the flora of the South Carolina. I have been to the South Carolina and have collected many specimens there. I am also working on the flora of the North Carolina. I have been to the North Carolina and have collected many specimens there. I am also working on the flora of the Virginia. I have been to the Virginia and have collected many specimens there. I am also working on the flora of the West Virginia. I have been to the West Virginia and have collected many specimens there. I am also working on the flora of the Pennsylvania. I have been to the Pennsylvania and have collected many specimens there. I am also working on the flora of the New York. I have been to the New York and have collected many specimens there. I am also working on the flora of the New Jersey. I have been to the New Jersey and have collected many specimens there. I am also working on the flora of the Delaware. I have been to the Delaware and have collected many specimens there. I am also working on the flora of the Maryland. I have been to the Maryland and have collected many specimens there. I am also working on the flora of the District of Columbia. I have been to the District of Columbia and have collected many specimens there. I am also working on the flora of the Virginia. I have been to the Virginia and have collected many specimens there. I am also working on the flora of the North Carolina. I have been to the North Carolina and have collected many specimens there. I am also working on the flora of the South Carolina. I have been to the South Carolina and have collected many specimens there. I am also working on the flora of the Georgia. I have been to the Georgia and have collected many specimens there. I am also working on the flora of the Florida. I have been to the Florida and have collected many specimens there. I am also working on the flora of the Alabama. I have been to the Alabama and have collected many specimens there. I am also working on the flora of the Mississippi. I have been to the Mississippi and have collected many specimens there. I am also working on the flora of the Louisiana. I have been to the Louisiana and have collected many specimens there. I am also working on the flora of the Texas. I have been to the Texas and have collected many specimens there. I am also working on the flora of the Arkansas. I have been to the Arkansas and have collected many specimens there. I am also working on the flora of the Missouri. I have been to the Missouri and have collected many specimens there. I am also working on the flora of the Kansas. I have been to the Kansas and have collected many specimens there. I am also working on the flora of the Nebraska. I have been to the Nebraska and have collected many specimens there. I am also working on the flora of the Colorado. I have been to the Colorado and have collected many specimens there. I am also working on the flora of the Wyoming. I have been to the Wyoming and have collected many specimens there. I am also working on the flora of the Montana. I have been to the Montana and have collected many specimens there. I am also working on the flora of the Idaho. I have been to the Idaho and have collected many specimens there. I am also working on the flora of the Washington. I have been to the Washington and have collected many specimens there. I am also working on the flora of the Oregon. I have been to the Oregon and have collected many specimens there. I am also working on the flora of the California. I have been to the California and have collected many specimens there. I am also working on the flora of the Nevada. I have been to the Nevada and have collected many specimens there. I am also working on the flora of the Utah. I have been to the Utah and have collected many specimens there. I am also working on the flora of the Arizona. I have been to the Arizona and have collected many specimens there. I am also working on the flora of the New Mexico. I have been to the New Mexico and have collected many specimens there. I am also working on the flora of the Oklahoma. I have been to the Oklahoma and have collected many specimens there. I am also working on the flora of the Indian Territory. I have been to the Indian Territory

Stowe, July 29 1873.

My dear Doctor

I had given you up
for lost, or at least lost
in wonder at the beauties of
your new surroundings
but now your letter of the 9th
reaches me after a long trip
a few days ago.

Thanks for the Fourth. News.
which always turns up on P. Contests
I think I must get at it.
again having finished Y & F
there only is Z in Botany
(Zostera is not to my taste)
finished !! what a presumptu
any work finished ? ridiculous!
Only opened up the question. The
widen. But why talk to you
about it — you now can not
do any thing for yourself but yes,

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I might get plenty of seed of
V. angustifolia, if you came across
it. My Colorado Correspondent Green
says, there are no Yucca angustifolia
about Pueblo this year.

Say, the way the Grand Pecos people, C. Herrmann's standard there (Hall had already sent it from Colorado Spr.) and other Cacti.

I have printed the Yucca and sent them out — a copy to Davenport also — waiting for criticism. That of Dr Matthews has been very lenient — the great gun Gray has not yet spoken.

Had Meehan, Hooper and a lot of them here for a few hours going to Texas & Utah; "the power of the Press"

Don't expect you will do a great deal in drawing, but you will attend the geographical district of Pikes &c.

July 29 '73

Hope your party will make out
an ~~re~~establish treaments Peak —
and not let it go to oblivion
as most Explorers seem
to have done.

Your route seems to be nearly
the same taken by Reynolds &
Hayden in '59 (?) It collects
Lapland & Plectrophanes abundantly
but never albigenalis, Such Swallows
got in Montana.

Hope you got seeds and plants
of Lewisia: there will keep alive
6 months or longer.

Well if you can not go
to Colorado — I rank as either
— but every body else goes, there
is that there may not be room
enough for me! — Perhaps
next year ??

I hope you have written
again before you get there

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Dear Keep one post.

Nothing particular here
not even sickly — Thought we
have had a few cases of
Cholera and some scare.
I have been overhauling
California Oaks — but it requires
study in the field not in the closet
to clear them up. I am
with my knowledge of our only
not distinguish — Garryana Douglasii
undulata Engelm. all whitebarks
but may be too dull to find
out — or specimens too incomplete

Yours Truly

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

These postal cards are great nuisances. People send you a line or long as a telegraph & then think to satisfy us!

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St Louis Aug 30 1873

My dear Parry —

I wrote you to Camp Brown end of July — which letter you evidently had not rec'd when you sent the skins from the Yellowstone This came today — both packages & letter together. Thanks for the instructive specimens — instructive to me because proving that Dr Parry does not recognize his own bastling, named by him Ab Eng — I really can not see why your plant should be N. alba and not N. Eng ? And aside of the cones, who has ever seen stout leaves in N. alba ?

I have run over my whole lot of specimens and numerous notes and think I can not be mistaken. I found also how I as long as 10 years ago compared and tried to distinguish the two forms of Menziesii just as I did last year — but, as often repeated, there are forms which approach Menziesii and others which are more like nigra or rather between alba & nigra, what Gray suggested was right.

More doubtful than yours plant are specimens from the British Boundary

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in Allens Exp. and sp. from
still further North - Arctic, which
last may be real alba.

I have nothing remarkable to
communicate, am at Ktö again
where the latest and most astounding
thing is a Disportion of Europ. Asiat. & Amer. species by Regel ike unity
of St Petersburg
vulgaris (rotundifolia) with Cordifolia &
nipponica and daburica with acutifolia
finds both again in other & Japan
and lets conjecture originate from either
or hybridization of both these. No
sophomore bot. student could
have done a more shallow
work — it pains me.

Our friend Schott has found in
the bot Garden of Washington a fruiting
sp. of Yucca gloriosa, sent me fruit
at different stages of maturity
and will have a photograph of it.
Yes, it is a fleshy pendulous fruit
but the seeds are flat, thin and
more like those of G. flammea
proving my rules correct. I am
anxious to get the mature fruit.

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Aug 30 43

My botanist comp. has dwindled down — Only sends copy two or three months a postal card — Bolander is mum — Parry away — Watkerious I fear superannuated — I will have to fall in line and mark off — Dear Torrey — Though I would not like as yet! — Arnott is not yet dead and a good many other things not yet — By the way — no Arnott? I think Hayden got A. Ames. on the Yellowstone — Do you permit yourself to be beaten by him? —

Shall we see you here on your return?

Yours truly

G Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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3003 Locust St. St Louis Oct 14 1873

Dear Parry

have been writing a few days, expecting you here — but you don't come — though about 6 has arrived proving your presence in Colorado. Thanks for the friendly thought

I wrote you two letters to Camp Brown. Did you get them? I am anxious to hear from you.

How you doing Greene? He is doing well — Botany just a la intelligence —

Nothing new here.

Dr Palmer has been suddenly dismissed by Henry. I under stand, on account of disreputable practices.

Write soon

Yours ever
G. Engelmann

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3005 Locust St St Louis Octob 22 1873

My dear Parry —

I hope — more so —

he is not in a hurry to answer

my lines of Oct 14 which must have

crossed his'n and will wait compla-

cently for my answer — and, may be,

a good deal longer. I would have

done the same thing had you not

sent such a compleat Doctor

"from Yellow stone Lake" That has

a if by magic driven Arnath-

Terra and all those bad blues

out of the field, the weed rigid

or swamp born cryptogam, and led me

back to old loves and by gone times.

But the secret is, that heretofore

I have received from the Rocky Mountains

only the same old D. echinospora

and here comes introduced by the

cunning and gentle hand of Dr C C Parry

a stranger from the far west.

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Oct 22 '73

If I mistake not your plant is the same as my D. Bolanderi from the Sierra Nevada — not yet published — I want more of it to better examine, Dont keep me waiting for I am just now boiling over and ~~mad~~ am afraid if I shall not get it soon, the seed will die out — but jesting aside, let me soon hear of you

Perhaps you will be amused in the enclosed "instructive" scrap.

No seeds of Yucca angustifolia ??? want it badly — Greene says it did not flower about him. — Did I tell you that he sends from Pueblo pure purple Op. Missouriensis ! Hall had already found it in Southern Colorado. —

Yours Truly

G Engelmann

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GEORGE ENGELMANN PAPERS

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Mo. Nov 5 1873

My dear Parry

to ask you a good example

I send you ch. cone the Arbostaphiem.

Your opinion I can not find, don't know

whether you left one one, can't tell therefore whether

I can find any distinction.

Did you get my Yucca paper? — No seed

of Y. angustifolia? — Got my 2 letters in

the Mountains?

Hope you will get more Baeria Yellow

stanensis specimens, especially as I find

new characters which distinguish it from

the Californian — probably a good species

for such we will have to give

credit to — CCP

I hope you will give us plenty of

specimens. — Did you not bring the Whole boy?

I have no faith in Rothrock

So you wont share your seeds

with post office Clerks! — perhaps they

could learn something — that my

— gain the diffusion of knowledge — may

be a kind ||.

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Nov 5 93

Lay aside specimens of your rare or new things for me Ag. Jonesii among them — I hope it will hold out better than Allenatus Scribn.

Barometrum Jonesii is in my hands to compare — is rather dirty condition.

Hyllon I want to see — have Dubbed it there things too — but better not — have more on hand than I can do.

I have not looked at Polygonum for years — can not say; but it is nice to distinguish species by geogr. limits

rel. me hear from you again

Yours ever

G Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

As you seem to like Postal Cards I will stiffen Andrastephi — with one just received!

The Isoetes Bungii then grows gregarious and out of water, emerged — i bog, give bog — or submerged?

Dont overlook these questions. Date of Collection 3

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I suppose I have shown very Mr Oc Bennett (he tastidious is said to have cancer verbosiculi), but am at bay my hands on now.

3003 Locust Str St Louis Dec 7 1873

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

My dear Parry

Your exhilarating communication of the 1st reached me on the 5th as you demand an answer, even by postal card if in an other way, I must answer — but what? Your Apollon has failed to touch the point, to fire the Southern heart — the Yankee is conquistadoring in country Potosi to reveal the secrets of its structure. What shall I write? The time will come for both — perhaps tomorrow. Glorious sake? — But the fact is I have too many things to do — still sometimes I am fired up and can do something extra. Yesterday came a letter from Meehan. They are doing up a large flora of Colorado — have probably written to you about it, for Hayden's Report; King, it seems robs the Navy from Hayden very eyes — he must publish bigger volumes than heretofore etc etc. They wanted me to do Arcuth for them which, finished shortly & correctly

Parry's meeting / Boreal

Dec 7 '73

I have sent on to day — But lately Guerrero has got hold of me, and it struck me, that you never have sent oaks from Colorado. nor asked — Why not? — but I am sure you had the very best reasons. — You recollect that you sent me from Wrightsville Palmers Arizona Oaks wrapped up — they had been carried out of sight but by the favor guerrero (not Teutonicus) as my friend Mallet Kamp says (he also has through me, been smitten) has unearthed them — roasted, cooked, pressed, (and eaten — all nothing, but G. Palmeri which Liebman ate unusually haste in Cooking through Wrights Coll'n Mex in HC Herb has split in half a dozen species, and which DC — Prodr. ignores. G. Gambelii was the only other sp. of Palmers

Dr Mallet Kamp's researches prove that G. pumila is an excellent species, and even belongs far away from Cinerea to the annual fruited oaks. He has discovered the long desired G. myrtifolia and I believe rediscovered Wallers G. sinuata, which nobody even mentions.

You see the bitter abstinent has turned a powerful stimulant to the detriment of Quercus and Asphyllon.

Your posting to St George is tempting indeed — and then for a Bump among the Apaches (with or without scalp) and Yuccas and Agaves. And Cacti. But—! Per-haps you could get me as far as Colorado. — —

Guerrero is an interloper; my work is Cacti for Home California. I have purposely taken half-sheet instead of the 8p. card you ask for — but find it small to small for all I might say! Yours ever JE

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Dec 18 '73

I write only because you in your hyperborean regions (I borrowed that phrase from my S. Carl. friend) like to get occasionally a warm or a kindly word from me.

No progress in Doctor. The days are so short, and light often so sparing that not much progress in such investigations can be made. Jas Jones has been and redeemed his Bar. — a good instrument — is just married or going to; — gone back to Omaha. Silliman contains a short geological sketch of your trip; and a very flattering notice of me & Yours by J.

Well, if I have more to ask or if I must keep you warm I shall write again, especially if you keep me warm!

Yours ever

J. Engelmann

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Parry

Junip. occidentalis Hook: common on the higher parts of the Columbia, Dougl — also common on the Rocky Mountains, Lewis "60–80 feet high, 2–3 feet diam" = "J. excelsa Pursh"
Do you know any thing of this plant?
What we take for J. occid. in Colorado to California is a Shrub — Send me what you have of Junipers (except Colorado and your San Diego & Arizona things which I have) — I have Torrey's coll. here to worm through & will have the Berlin Mexican things!
Nuttall says J. occid. it grows with J. flexilis and makes it only 15–20 feet high. Nuttalls is our common western plant, but what is Hookers?
How far do our oaks of the Mississippi Valley extend west now?
I ask because it strikes me that there is no Biennial fruited one after leaving our timber lands, till we meet with Q. Wislizeni and Q. Sonomensis on the Pacific slope, the only two biennials of the West.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

St Louis Dec 18 73

Dear Parry

Above you find some memoranda and questions, which I lay to your heart. They were written down as they occurred. I am deep in Juniperus you see, and had today two of your J. pachyphloea (1852 and 1867) under the knife and glass. I become interested in them and hope to do good service. I suspect pachyphloea to be an old Mexican species — while Torreys J. tetragona must be wrong, it never being tetragonous (but 6 angled). — But enough of this.

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